

**BAKOR**  
**MATERIAL SAFETY DATA SHEET**

<b>I-PRODUCTION INFORMATION</b>	
PRODUCT NAME	LOW SLOPE <span style="float: right;">ONE PLY TWO PLY</span>
PRODUCT TYPE	SHEET MEMBRANE ROLL FORM
PRODUCT USE	Waterproofing membranes for low slope roofs.

<b>II-HAZARDOUS INGREDIENTS</b>				
INGREDIENTS	%	CAS #	EXPOSURE LIMITS	LD <sub>50</sub> /LC <sub>50</sub>
PETROLEUM ASPHALT	40-80	8052-42-4	5mg/m <sup>3</sup>	ACGIH, NIOSH
SILICA SAND (RESPIRABLE DUST)	0.01	14808-60-7	0.1mg/m <sup>3</sup>	ACGIH
HYDEOFEN SULPHIDE	contaminant	7783-6-4	10 ppm	ACGIH

<b>III-PHYSICAL DATA</b>			
PHYSICAL GAS ( ) STATE LIQUID ( ) SOLID (x)	ODOR & APPEARANCE SLIGHT PETROLEUM ODOR, covered with granules and sand and polyethylene film.		ODOR THRESHOLD (ppm) NOT AVAILABLE
VOLATILE (VOLUME) Ø	VAPOR PRESSURE (mmHg) NOT APPLICABLE	VAPOR DENSITY (air=1) NOT APPLICABLE	EVAPORATION RATE (BuAc=1) NOT APPLICABLE
BOILING POINT °C NOT APPLICABLE	FREEZING POINT °C NOT APPLICABLE	SPEC.GRAVITY (WATER=1) 1.1-1.2	DENSITY (g/ml) 1.1-1.2
SOLUBILITY IN WATER INSOLUBLE	CHEF. OF WATER/OIL DIST. NOT APPLICABLE	ph NOT APPLICABLE	

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<b>IV-FIRE &amp; EXPLOSION HAZARD</b>		
<b>FLAMMABILITY</b> YES ( ) NO (X)	<b>CONDITIONS OF FLAMMABILITY</b> NOT APPLICABLE	
<b>FLASH POINT °C 240 MIN.</b> <b>METHOD: COC</b>	<b>FLAMMABILITY LIMITS (% VOLUME)</b> LOWER N/A      UPPER N/A	<b>AUTO IGNITION TEMP. °C</b> 370-480
<b>TDG FLAMMABILITY CLASS</b> NOT REGULATED	<b>SENSITIVITY TO MECHANICAL IMPACT</b> NONE	<b>SENSITIVITY TO STATIC DISCHARGE</b> NONE
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	On burning SO <sub>2</sub> and CO <sub>2</sub> . Main combustion products are H <sub>2</sub> O, CO <sub>2</sub> and C (as heavy smoke)	
<b>MEANS OF EXTINCTION</b>	Foam, carbon dioxide, dry chemicals and water	
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Use water spray or fog to keep fire-exposed containers cool. Do not point solid water directly into burning asphalt to avoid spreading. Self-contained breathing apparatus and fire protective clothing should be worn when fumes or smoke are present.	

<b>V-REACTIVITY DATA</b>	
<b>CHEMICAL STABILITY</b> YES (X) NO ( )	<b>CONDITIONS TO AVOID</b> overheating of product
<b>INCOMPATIBILITY (SUBSTANCES TO AVOID)</b>	Excessive heat approaching flash point, strong oxidizing agents and acids. Upon heating H <sub>2</sub> S may be generated. Avoid contact of hot material with water.
<b>CONDITIONS OF REACTIVITY</b>	NOT APPLICABLE
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	CO, CO <sub>2</sub> , SO and H <sub>2</sub> S upon heating

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**VI-TOXICOLOGICAL PROPERTIES**

THRESHOLD LIMIT VALUE 0.1 mg/m <sup>3</sup> for respirable silica sand (ACGIH - TLV)		LC <sub>50</sub> /LD <sub>50</sub> NOT APPLICABLE
ROUTE OF ENTRY	(X) SKIN CONTACT (X) EYE CONTACT (X) INHALATION (X) INGESTION	
EFFECTS OF ACUTE EXPOSURE	Product not a problem in normal use. If burning inhalation of fumes can cause nausea, headache and dizziness. HOT ASPHALT BURNS SKIN AND EYES.	
EFFECTS OF CHRONIC EXPOSURE	Long term skin contact can result in irritation, dermatitis and increased sensitivity to sun. Prolonged exposure to respirable silica dust may cause delayed lung disease.	

IRRITANCY fumes may be irritant to eyes and respiratory tract.	SENSITIZATION after prolonged exposure to fumes.	SYNERGISTIC MATERIALS not known
( ) CARCINOGENICITY ( ) REPRODUCTIVE EFFECT ( ) TERATOGENICITY ( ) MUTAGENICITY no evidence that bitumens are carcinogenic to humans		

**VII-FIRST AID MEASURES**

SKIN	For cold product wash skin with soap and water. For hot product quench burns with cold water and cover with sterile dressing, DO NOT TRY TO REMOVE PRODUCT and move victim to hospital.
EYE	Flush with running water for at least 15 minutes, seek medical attention
INHALATION	Remove victim to fresh air, if irritation persists administer oxygen and get medical attention
INGESTION	Ingestion is unlikely but if it happens do not induce vomiting. In general no treatment is necessary unless large quantities are ingested however get medical advise.

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<b>VIII-PREVENTATIVE MEASURES</b>		
PERSONAL	EYES: Safety glasses recommended	
PROTECTIVE	GLOVES: Recommended	
EQUIPMENT	CLOTHING: Long sleeved clothing recommended	
	RESPIRATORY: Not required unless torching in confined spaces.	
ENGINEERING CONTROLS (VENTILATION, ETC)	Exhaust ventilation required in confined spaces. Outdoor use avoid fumes by working upwind.	
LEAK AND SPILL PROCEDURE	If product has been heated and released from solid form allow to cool and solidity. Break up, recover and place in drums.	
WASTE DISPOSAL	Bury in approved landfill or burn in an improved incinerator as per local regulations	
HANDLING PROCEDURES	Take necessary precautions when working with hot material.	
STORAGE REQUIREMENTS	NONE	
SHIPPING INFORMATION	NONE	
<b>IX-PREPARATION OF MSDS</b>		
PREPARED BY: <i>Heather Davidson</i> Heather Davidson	PHONE NUMBER: 519-882-2300	DATE: May 10, 2000

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